

FIGURE 1

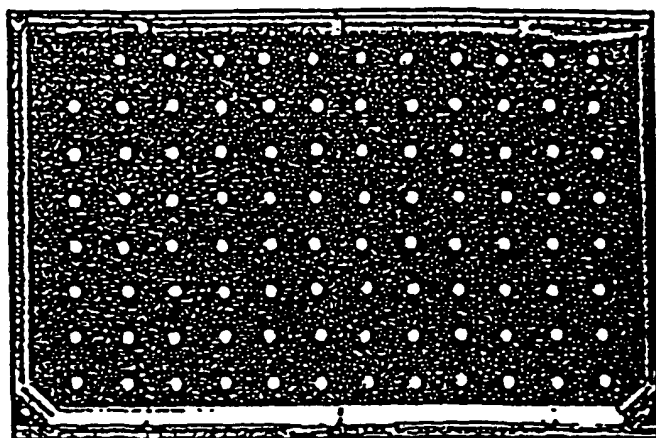


FIGURE 2

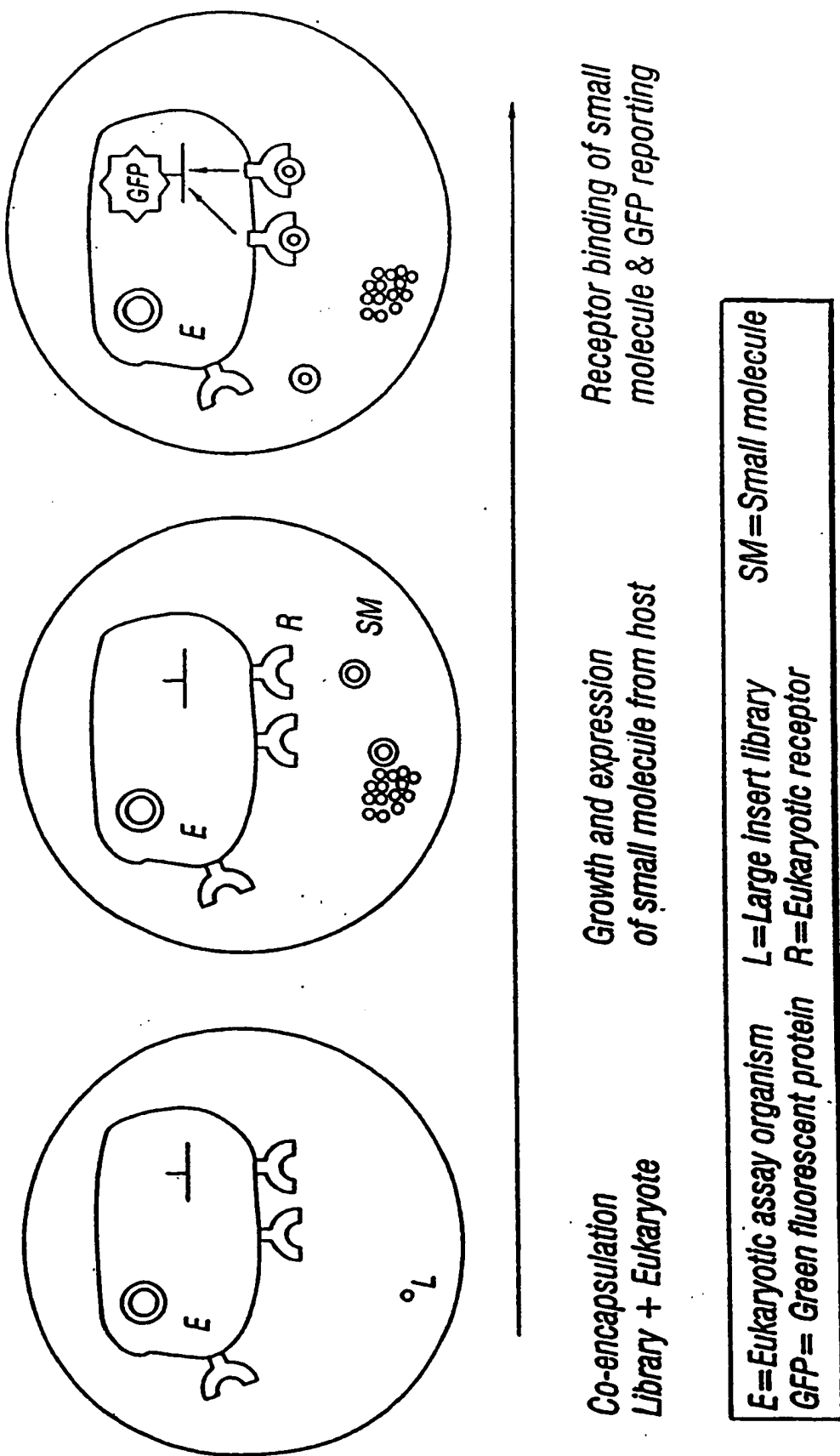


FIGURE 3

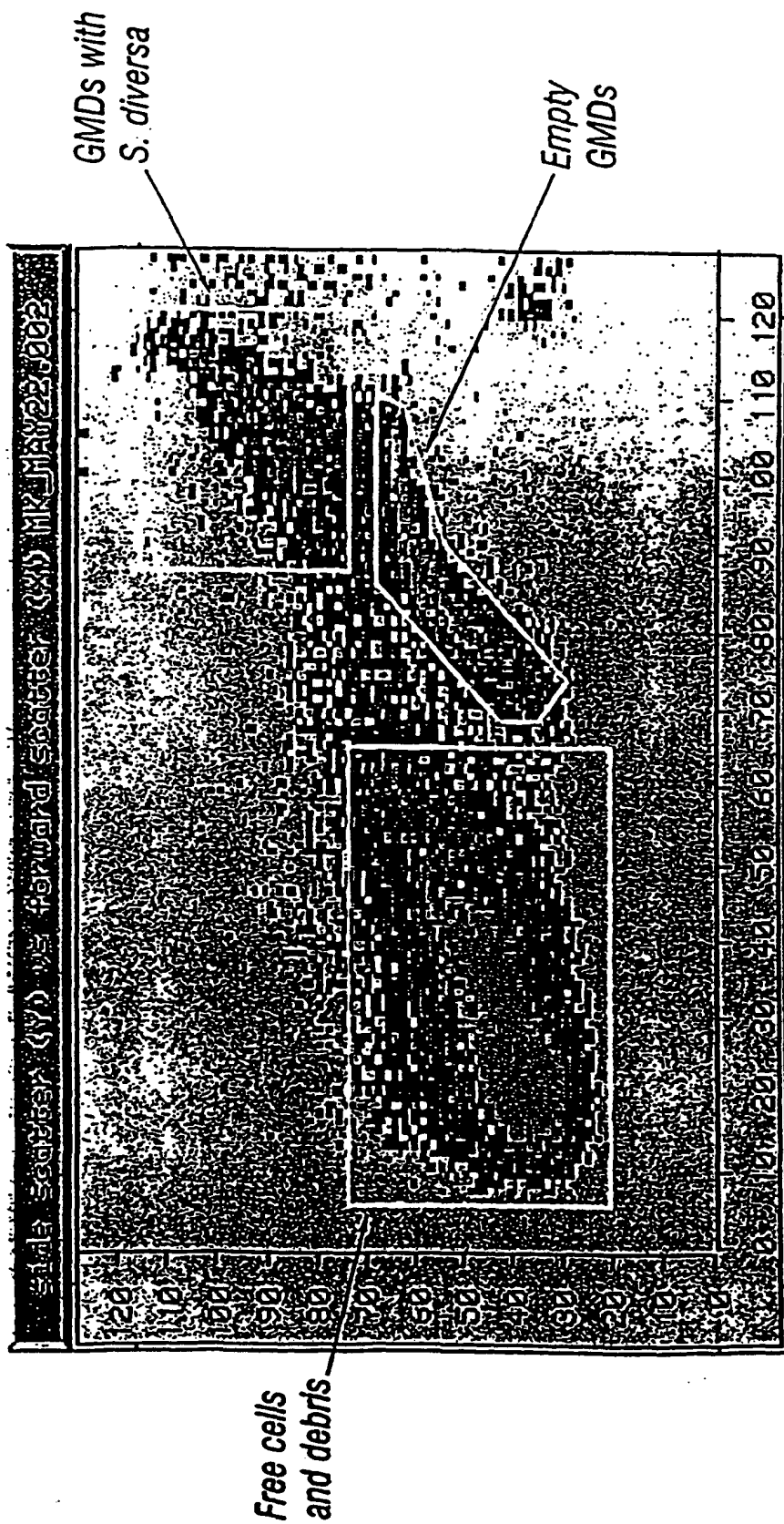
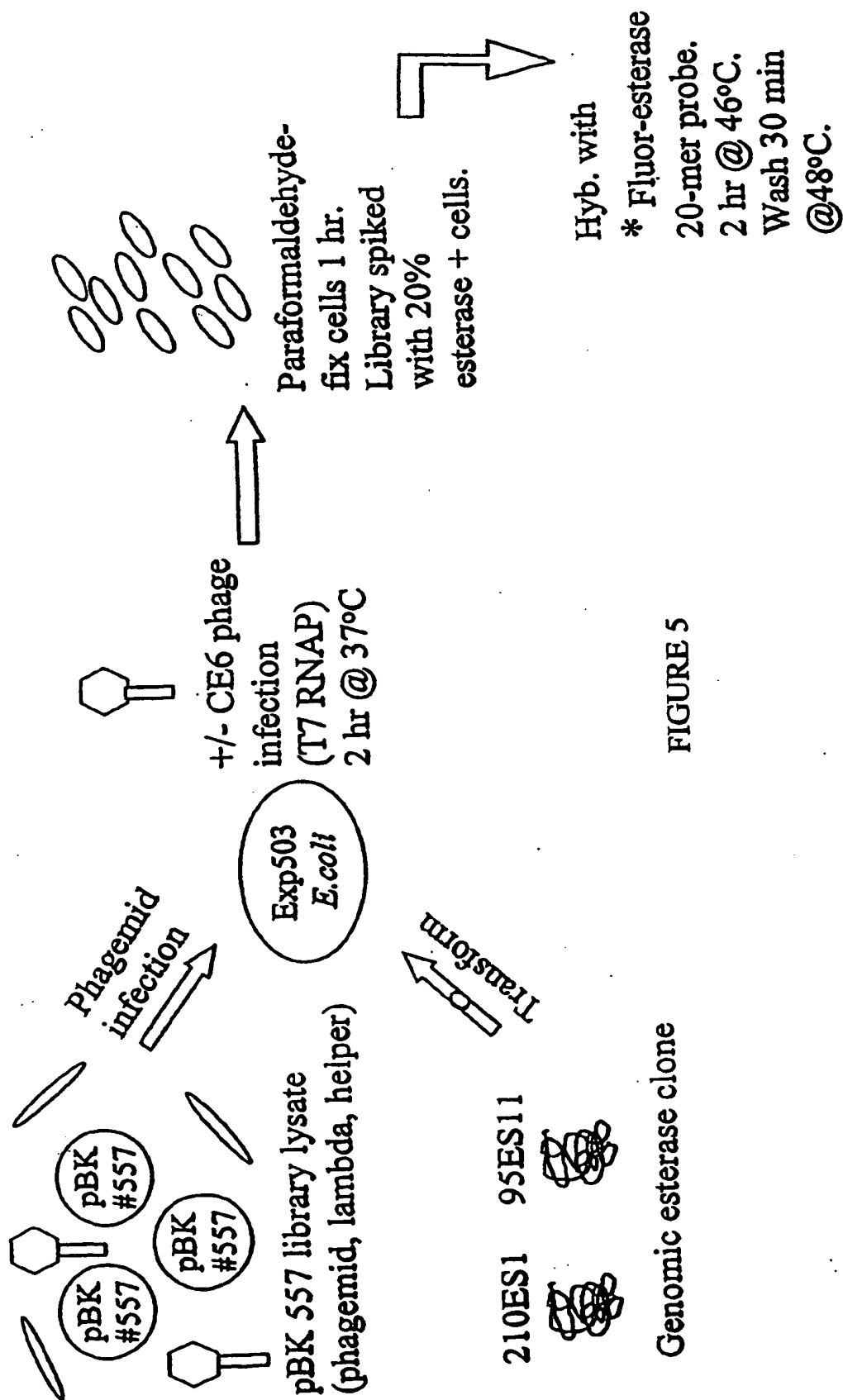


FIGURE 4

Whole Cell Hybridization Protocol (+ control)



Genomic esterase clone

FIGURE 5

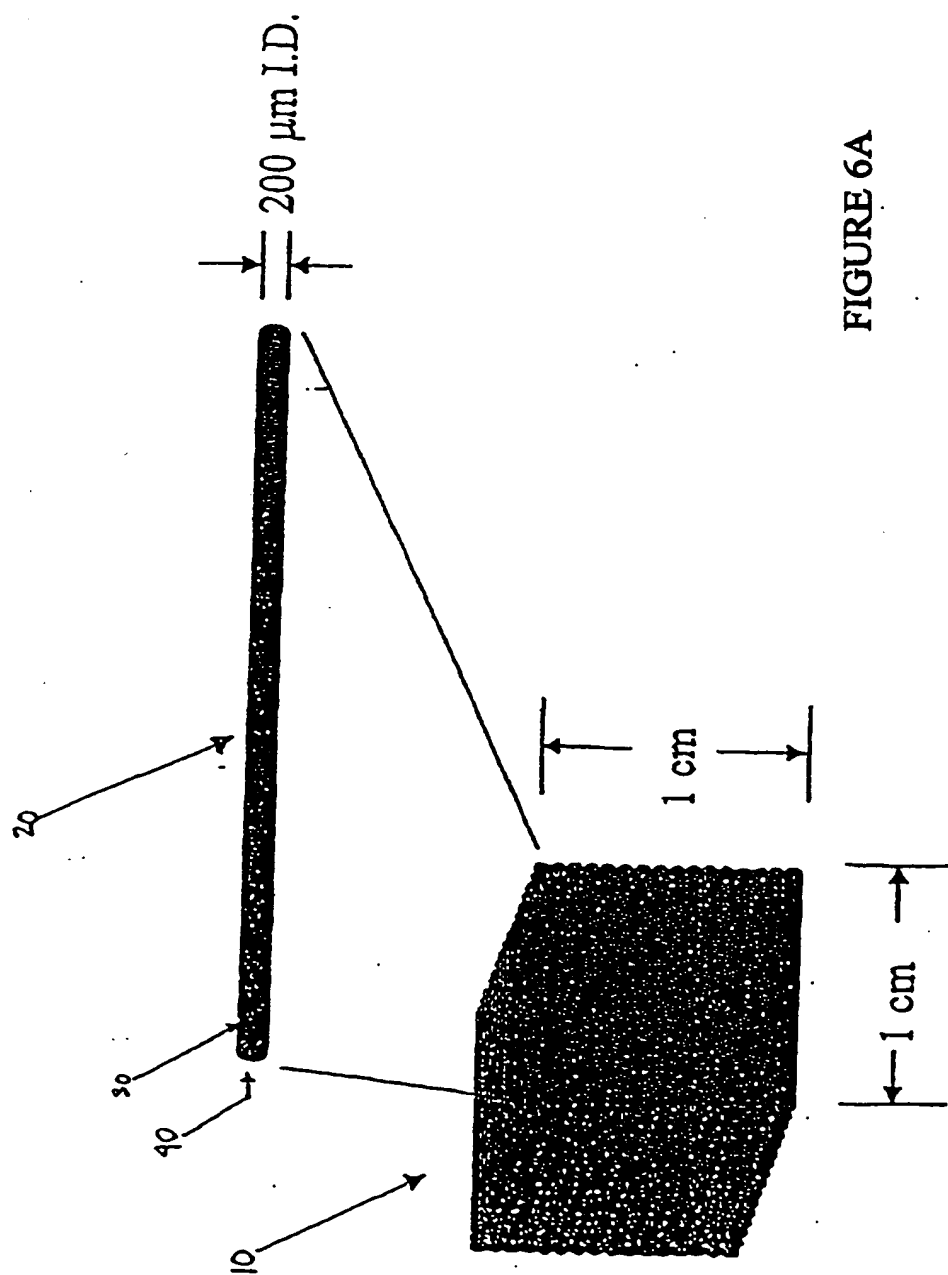


FIGURE 6A

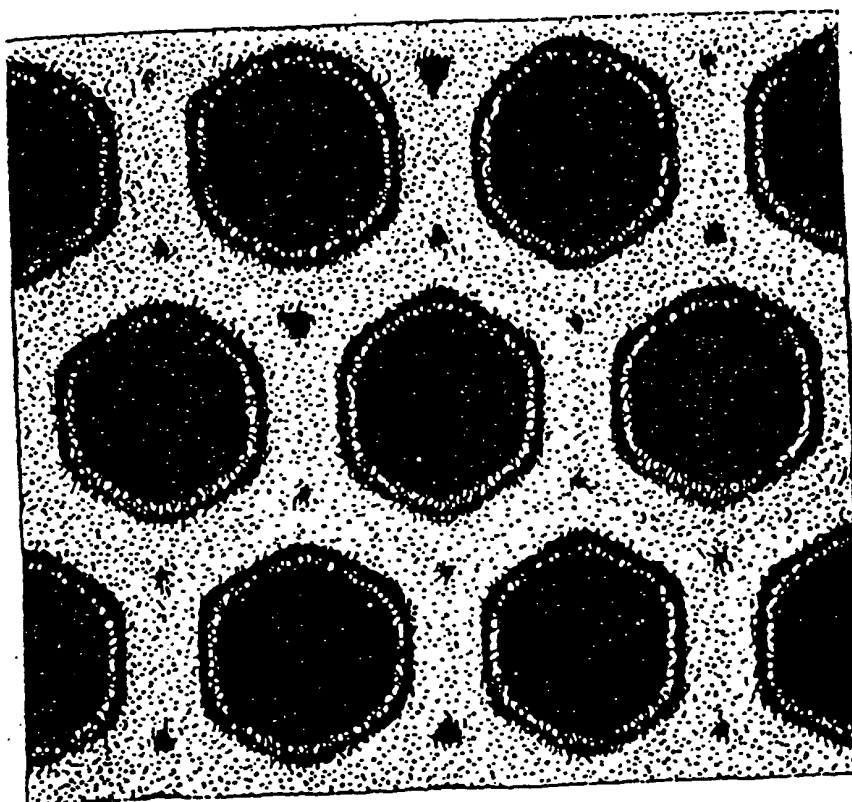


FIGURE 6B

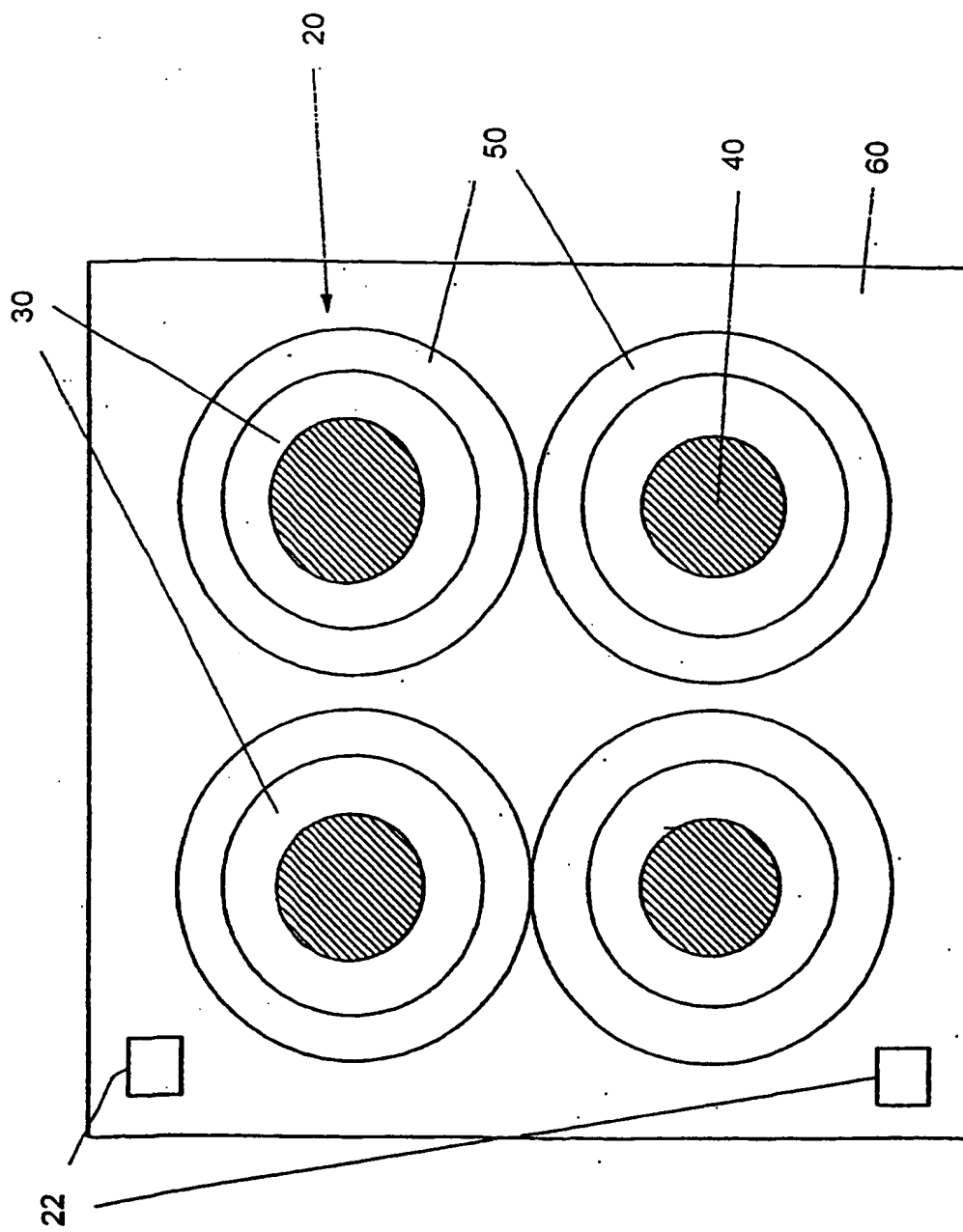


FIGURE 7

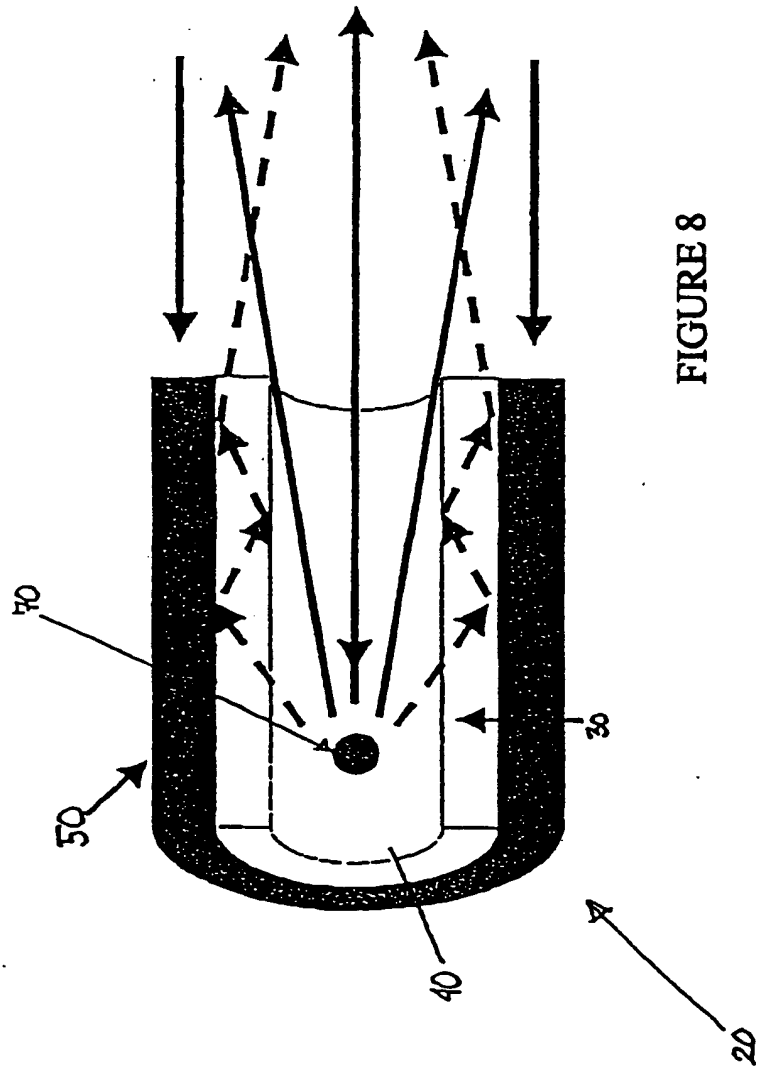


FIGURE 8

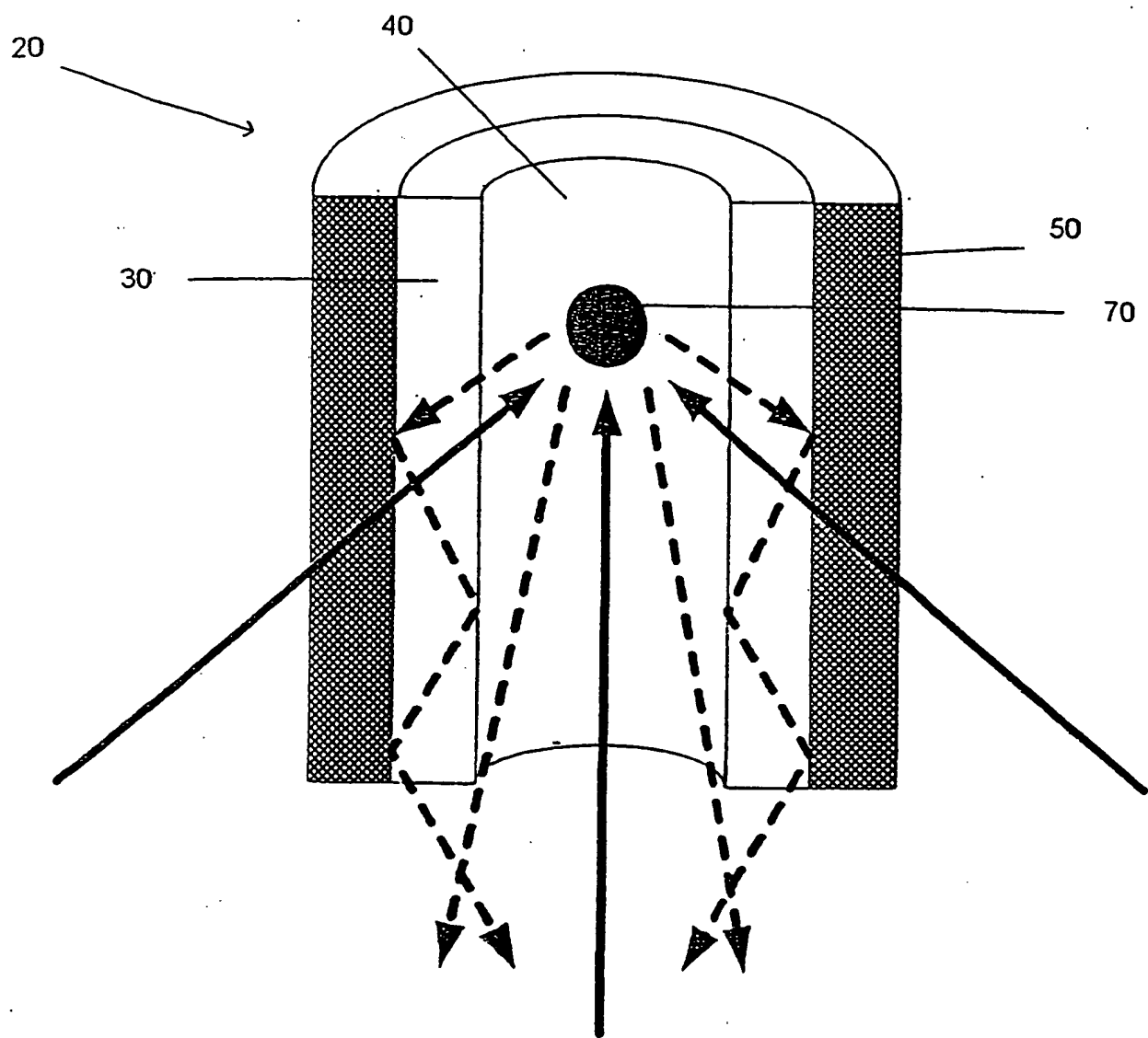
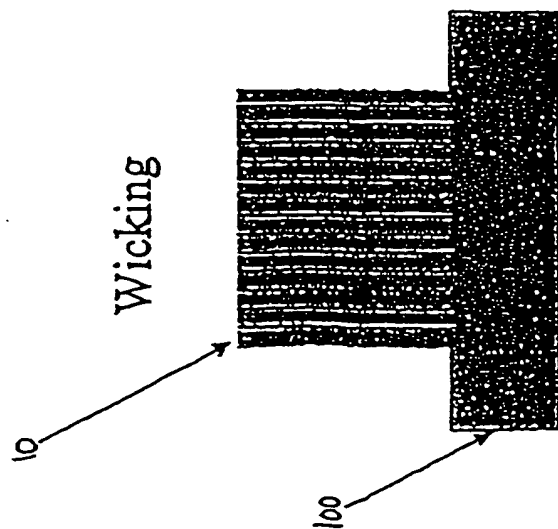
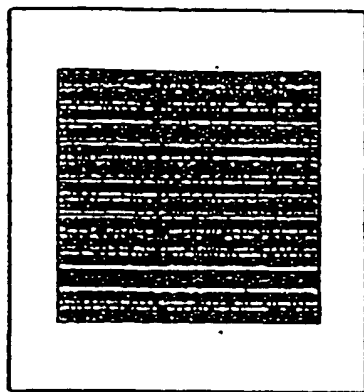


FIGURE 9



Humidified Incubation



Imaging &
Recovery



FIGURE 10

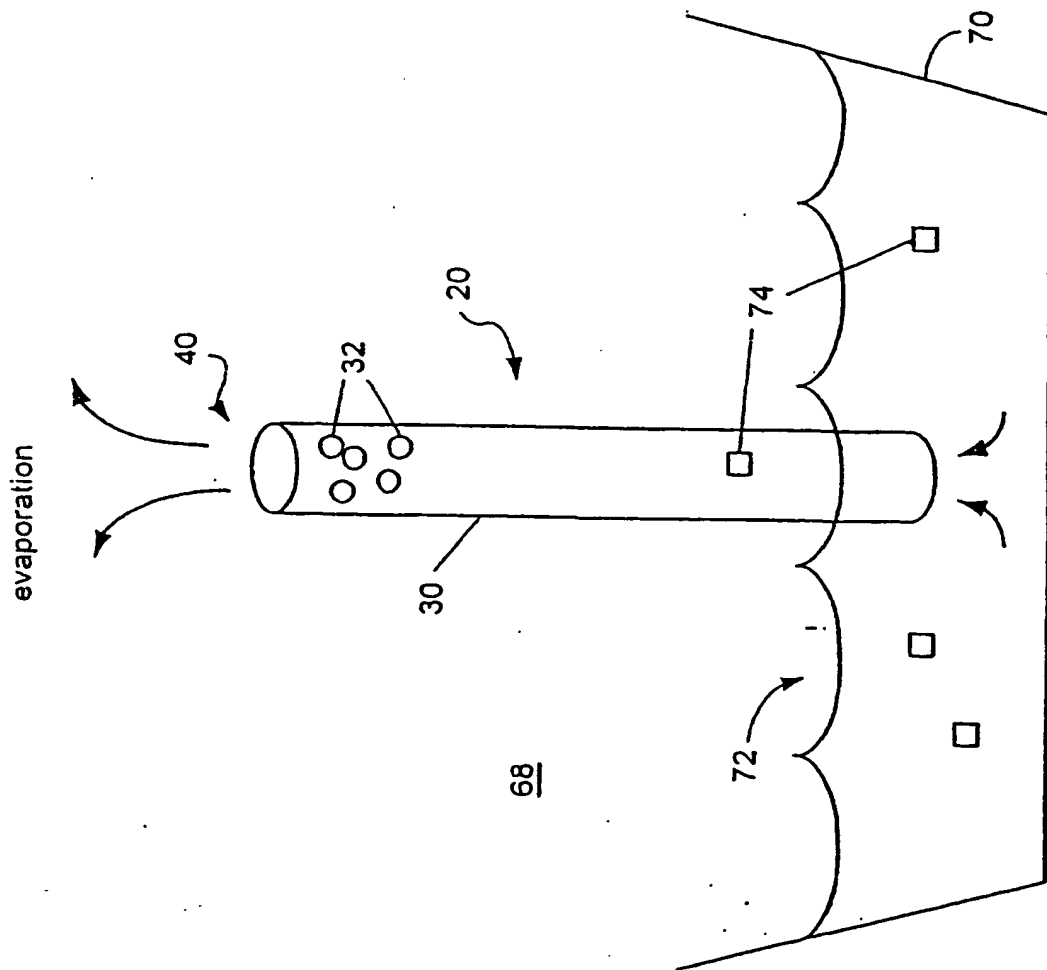


FIGURE 11

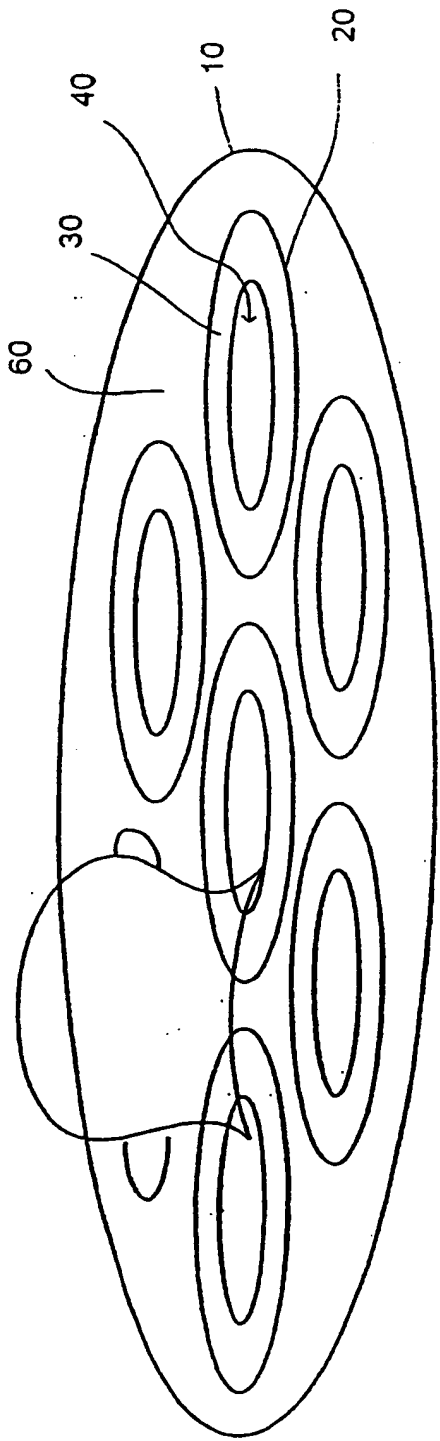


FIGURE 12A

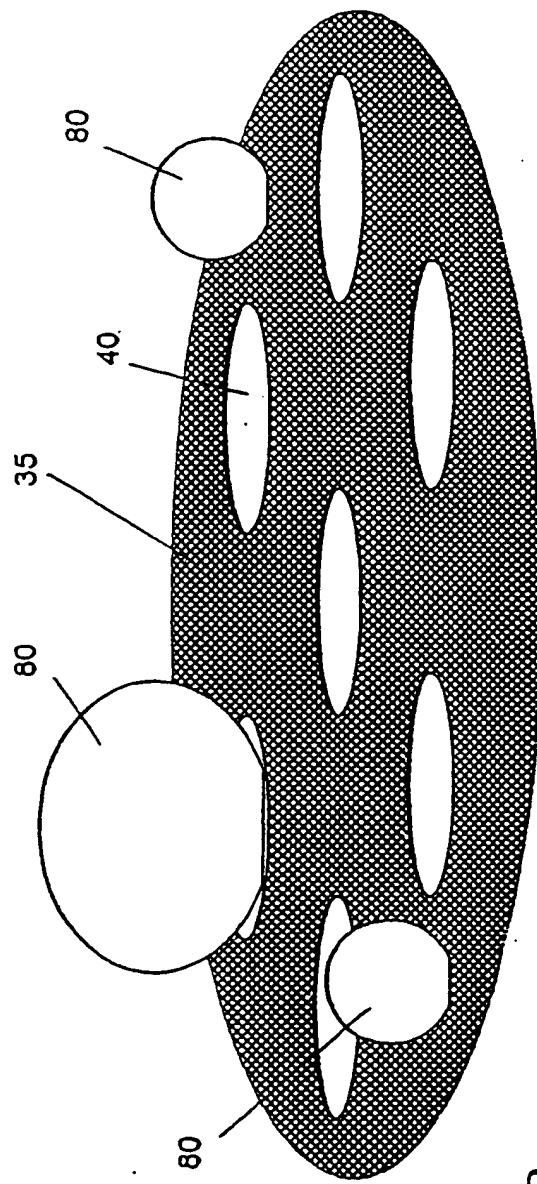


FIGURE 12B

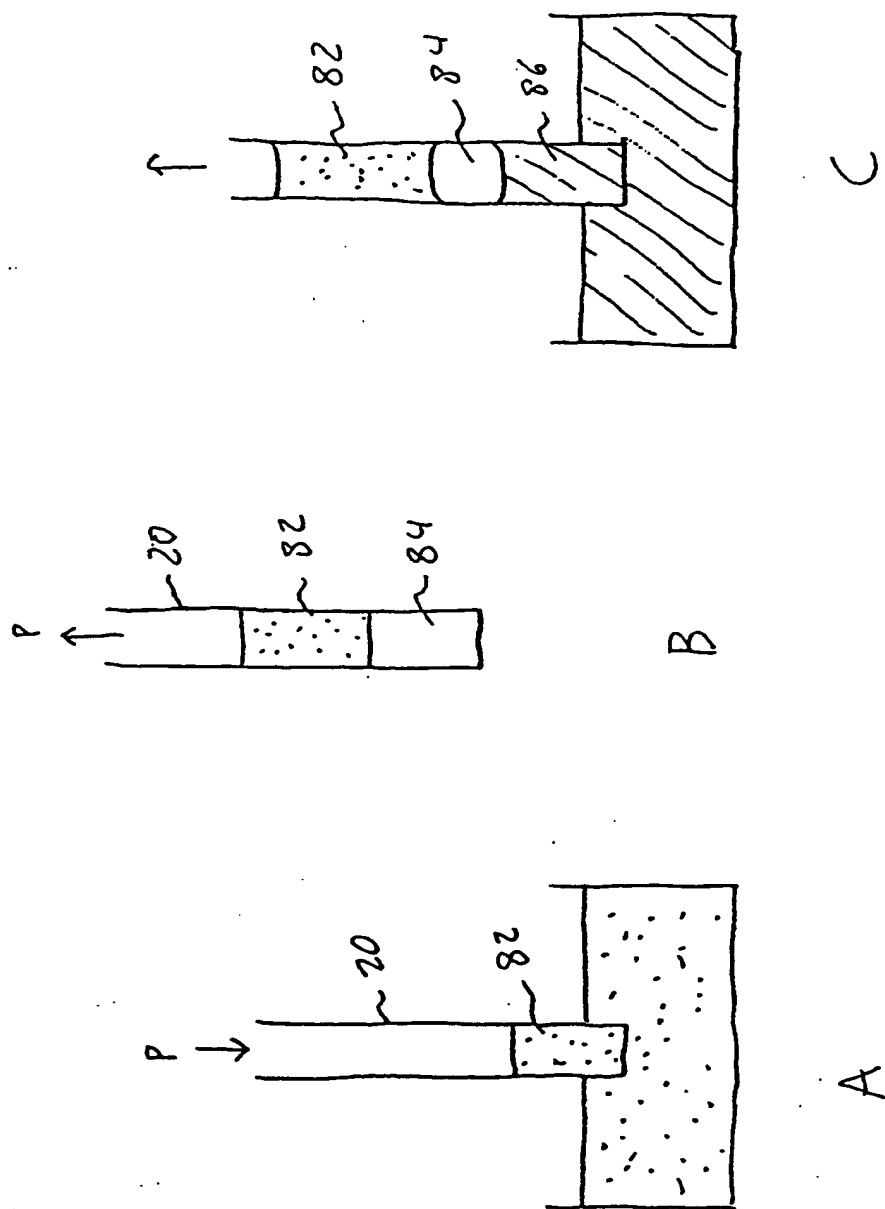


FIGURE 13

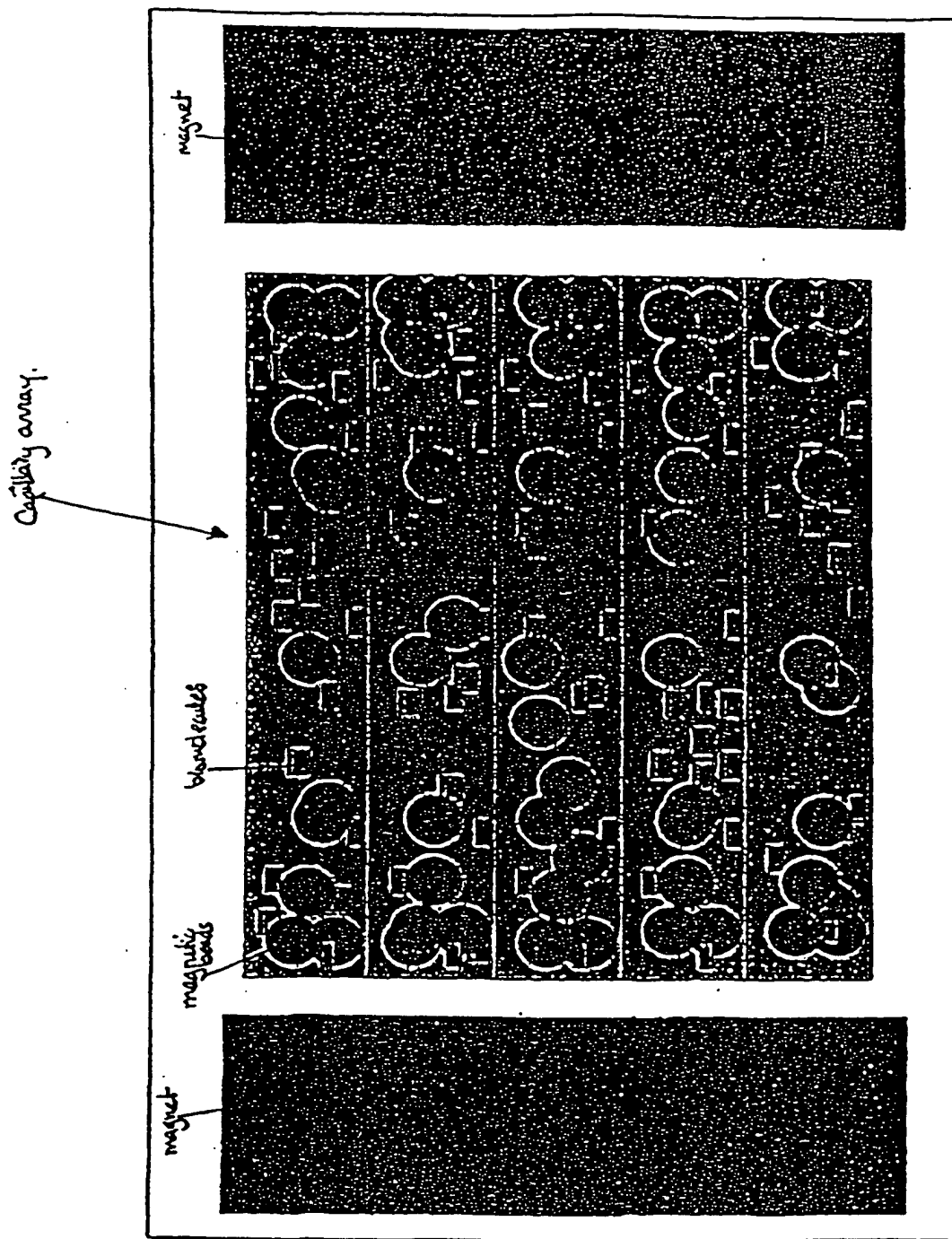


FIGURE 14A

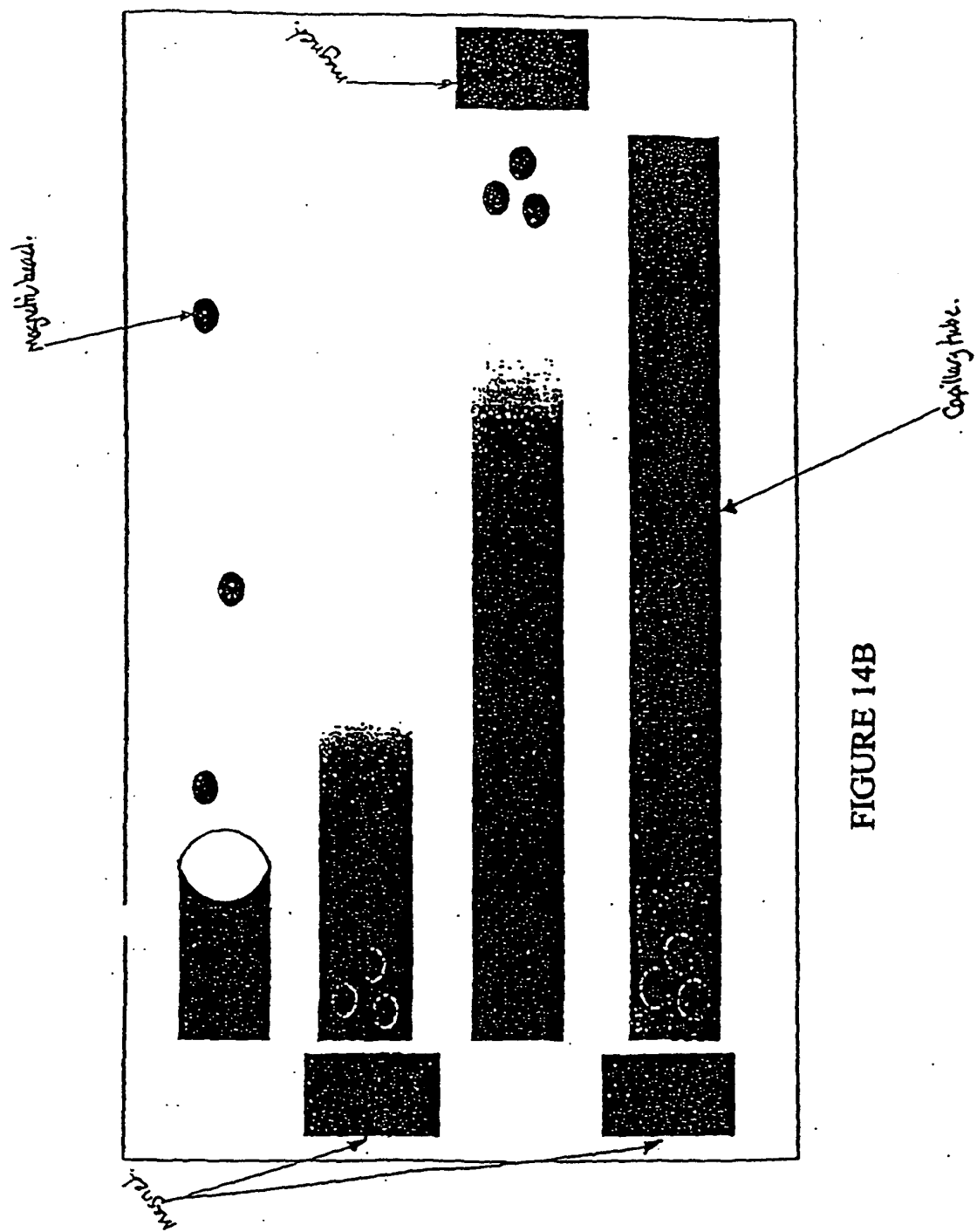


FIGURE 14B

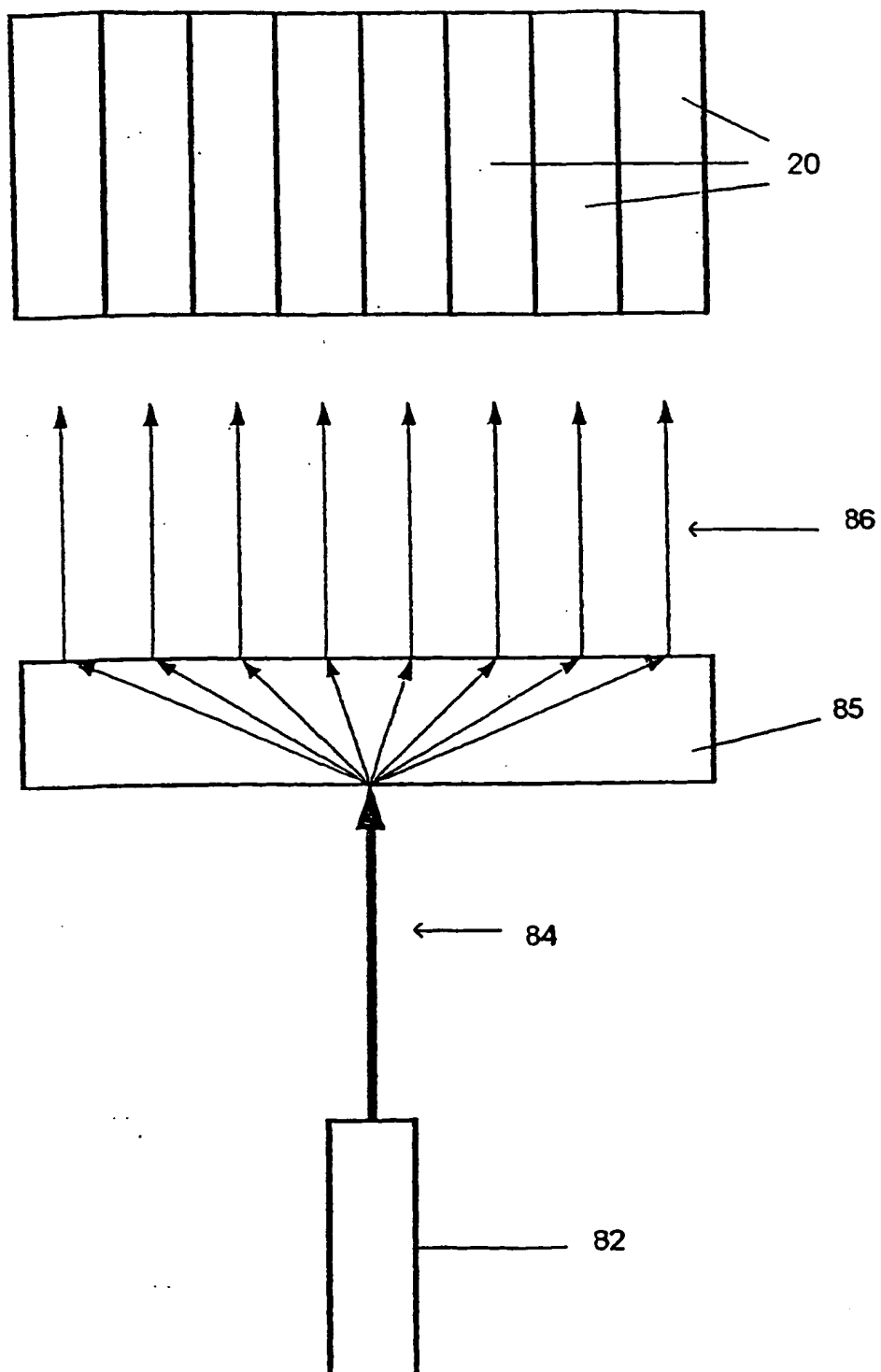


FIGURE 15

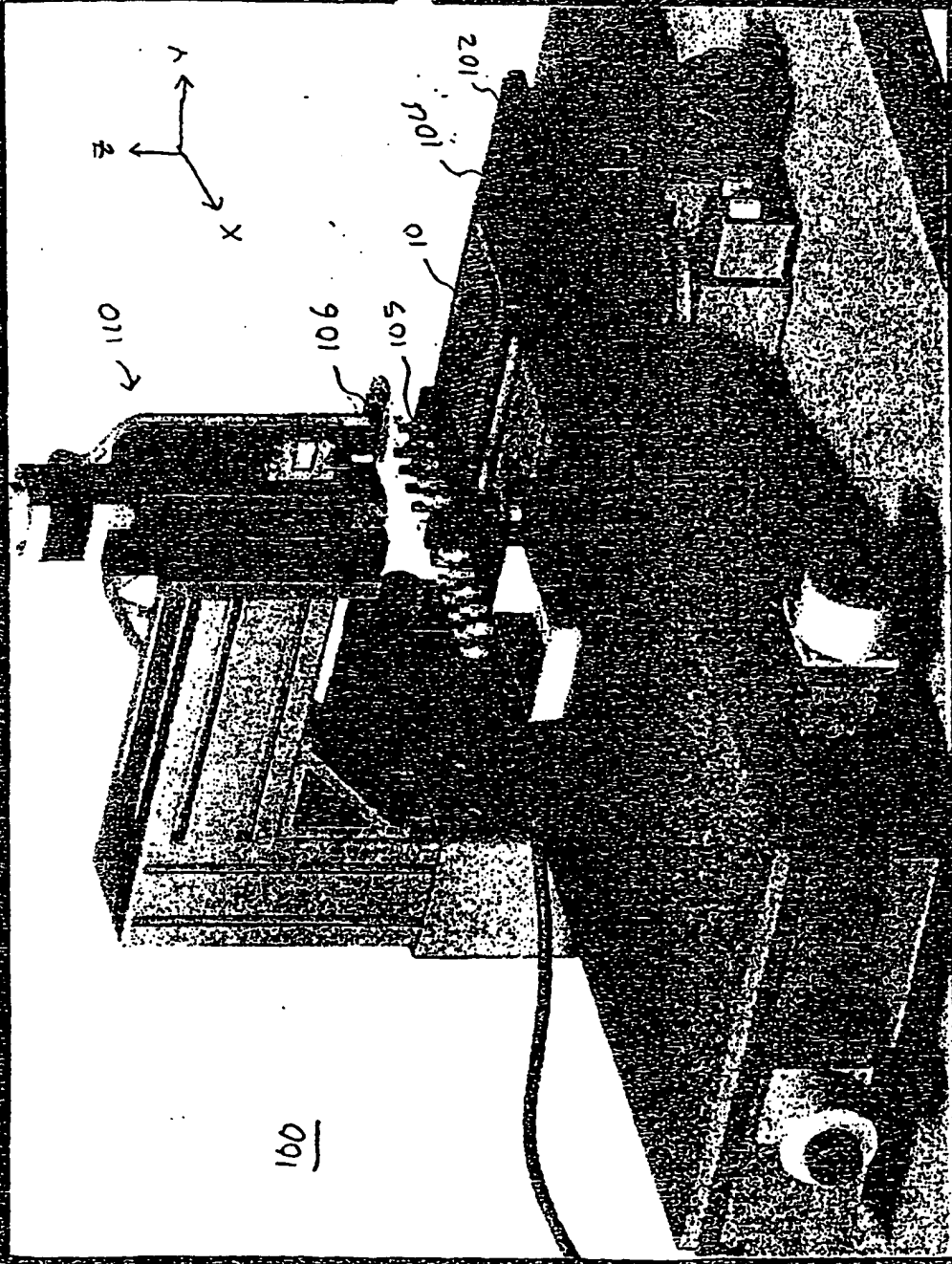


FIGURE 16

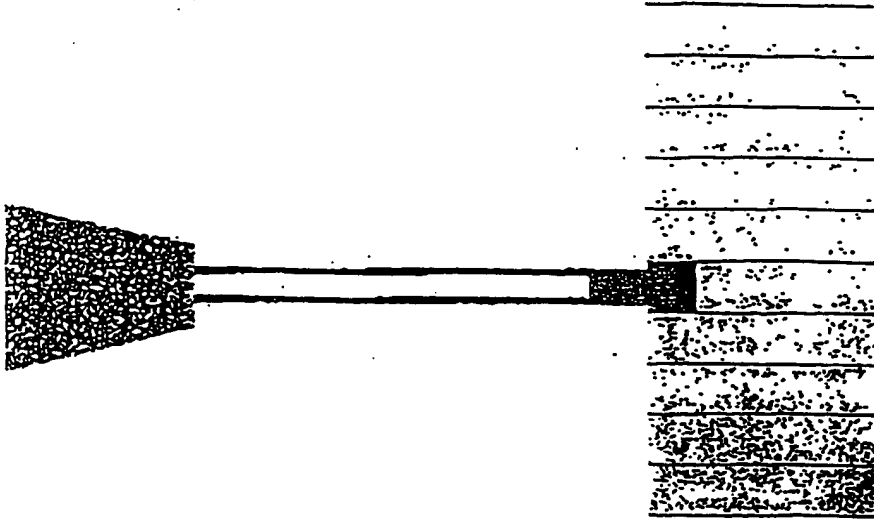


FIGURE 17B

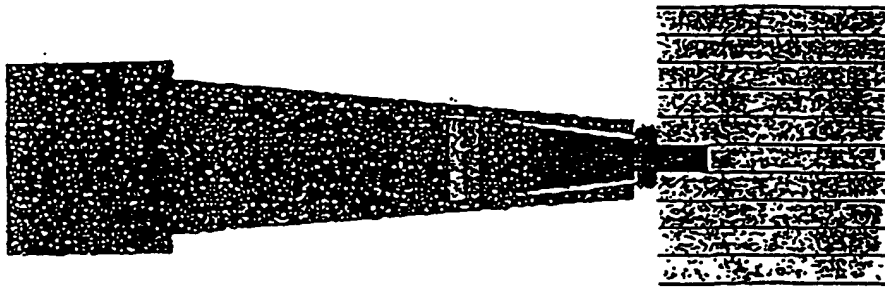


FIGURE 17A

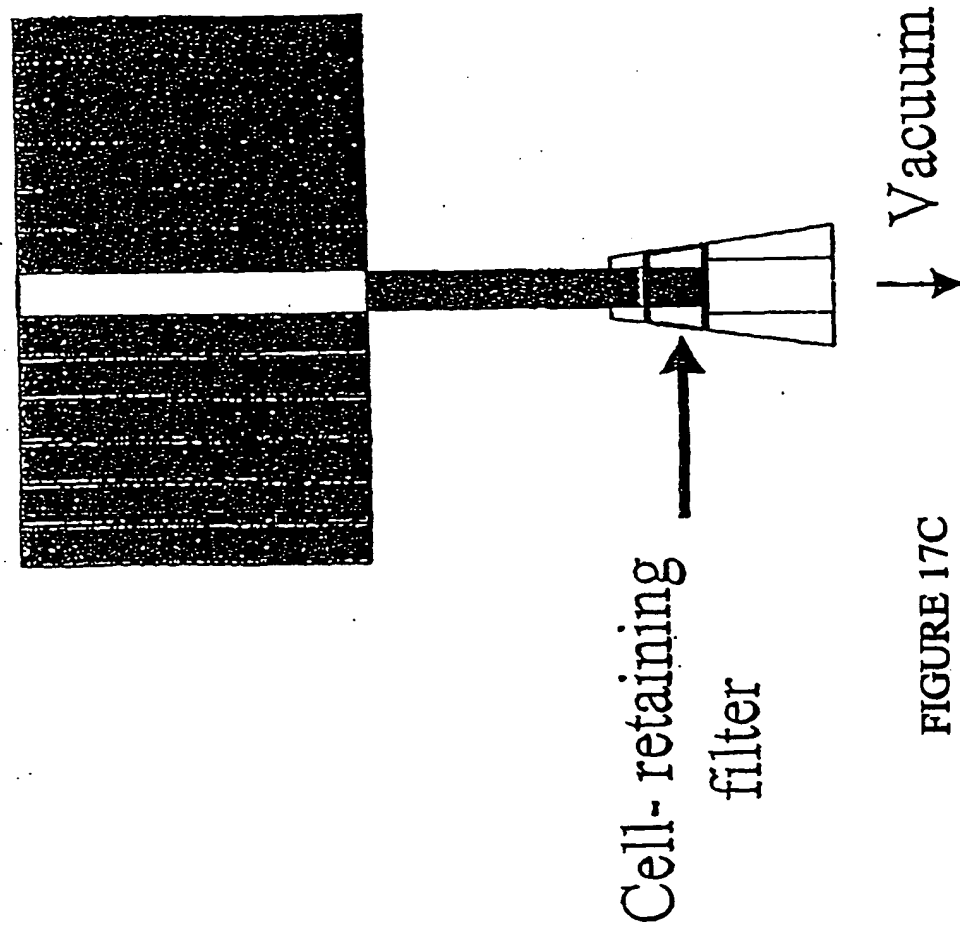


FIGURE 17C

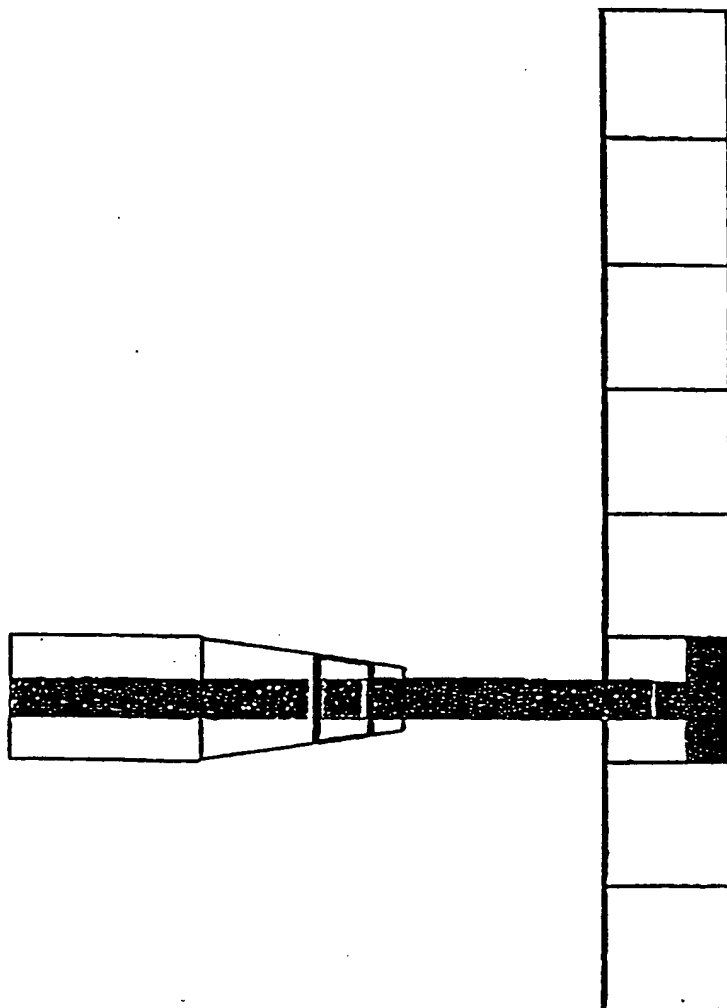


FIGURE 17D

HTP Enrichment of Low Copy Gene Targets

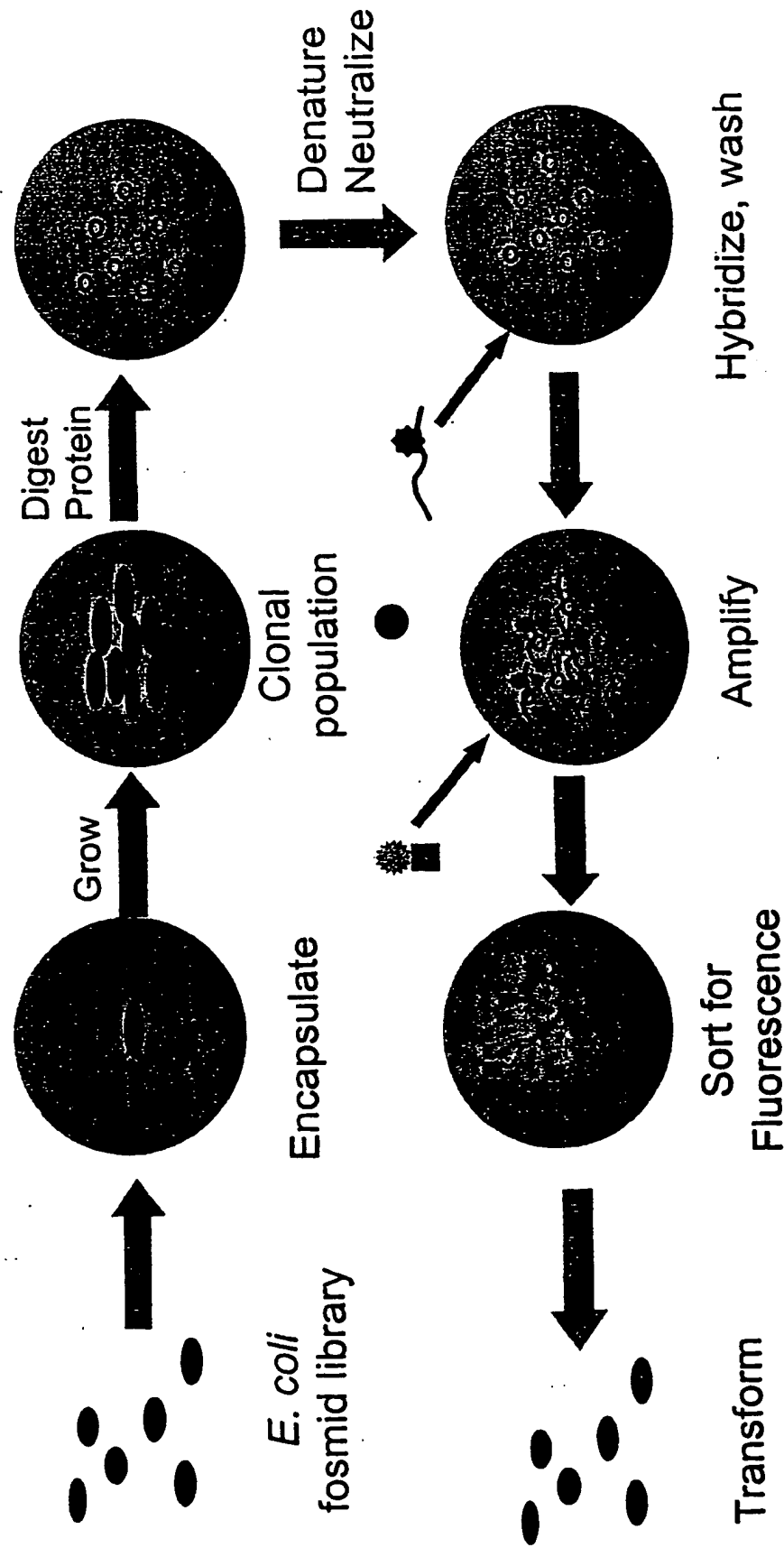
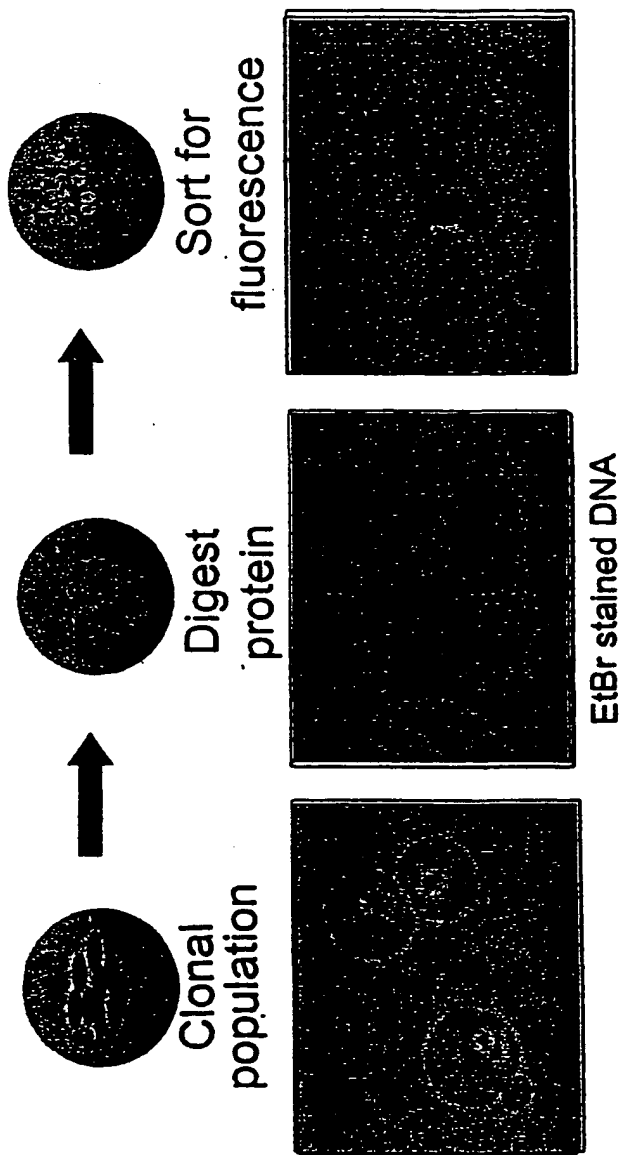


FIGURE 18

FACS-Biopanning



-STGCTSGLSVGAVQLIREGSADVVIAGRADTPVSPIVVACFDAIKATTPEHDPPEHA
 VSTGCTSGLDVAVGYAFHTIEEGRADVCIAGASDSPISPIITMACFDAIKATSPHNDDEPHA
 VBTGCTSGLDVAVGYAHIAEGRADVCLAGASDSPISPIITMACFDAIKATSPSHDDLEHA
 VSAGCTSGIDSIGYACELIREGTVDMVAGGVDAPIAPITVACFDATKATSDHDTPEHA
 IATACTSGVHNIGHAARIITAYGDADVVMVAGGABKASTPLFVGGPGAAALSTKNDKPCAA

 SRPFDGTRHGFVLAEGCAAMPVLEEEYEAARRRGANITYASVGGYATPCCHAYHMTSIKKOGRH
 SRPFDAHRDGFYMGEGANVLVLEELHAPARGAHVYCEIQTATFENAHMTSLTSESL
 SRPFDAHRDGFYMGEGANVLVLEELHAPARGAHVYCEIQTATFENAHMTSLTSESL
 SEFDSRBRNGFVLGEGAI VVLEEEAAVRRRGANITYAEIUGYASRGHAYHMTGIRADGAE
 SRPMDKRRDGFVLJQAGMLVLESEYERAKKRGANITYAELVGFGMSSDAYHMTSEFENKGAQ

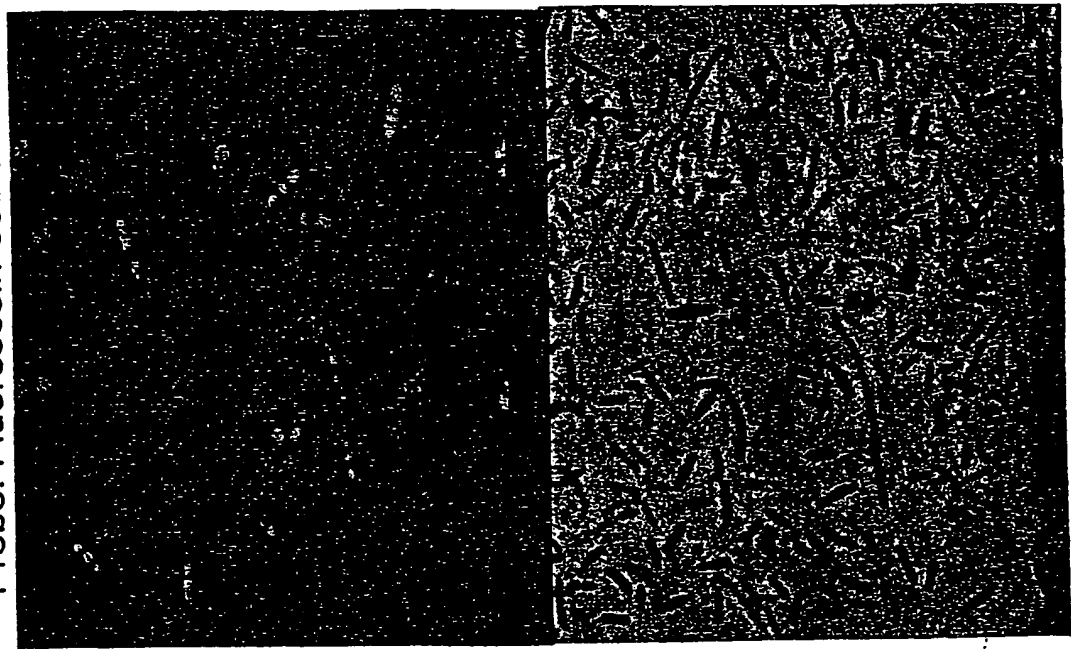
 MAAITRAALDEA
 MARATDVATDIA
 MARALUTALDIA
 MAAITRAALDEA
 AALAMARALKDA

Alignment of Environmental
PKS Sequence

FIG. 19

Whole Cell Hybridization

Library 557 + 95ES11 clone
Probe: Fluorescein-95ES11



Fluorescein
Excitation

White
light

FIG. 20

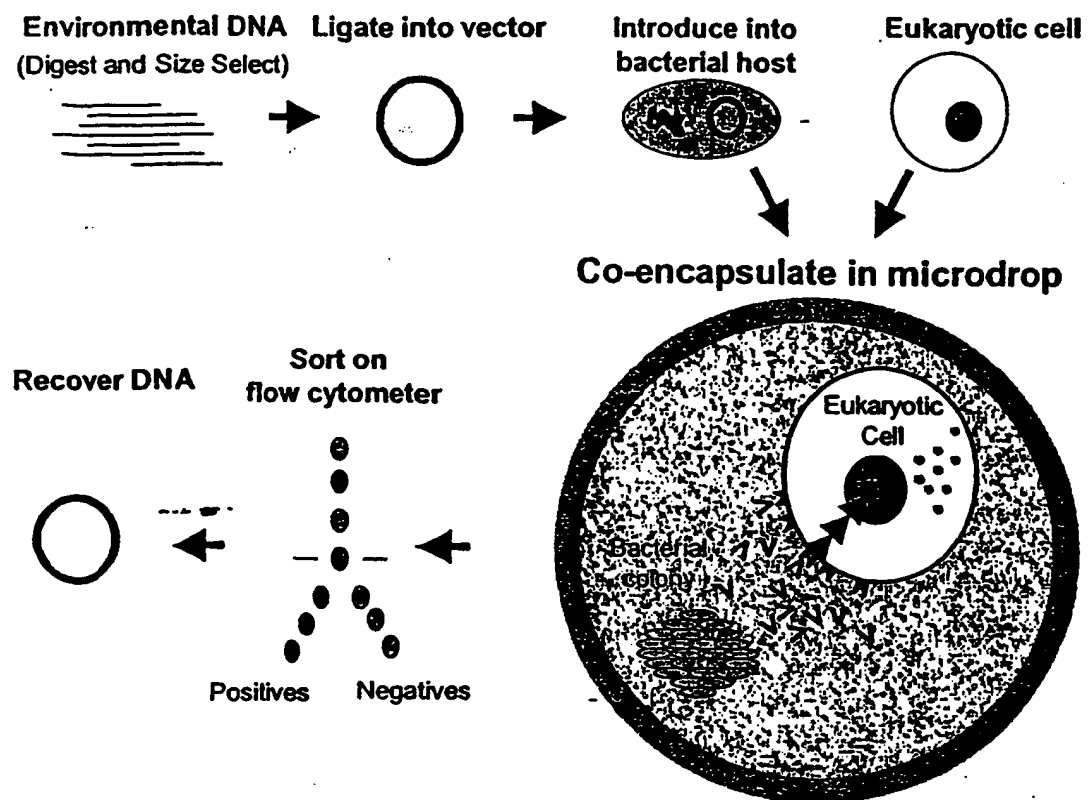


FIG. 21

Whole Cell Hybridization Protocol

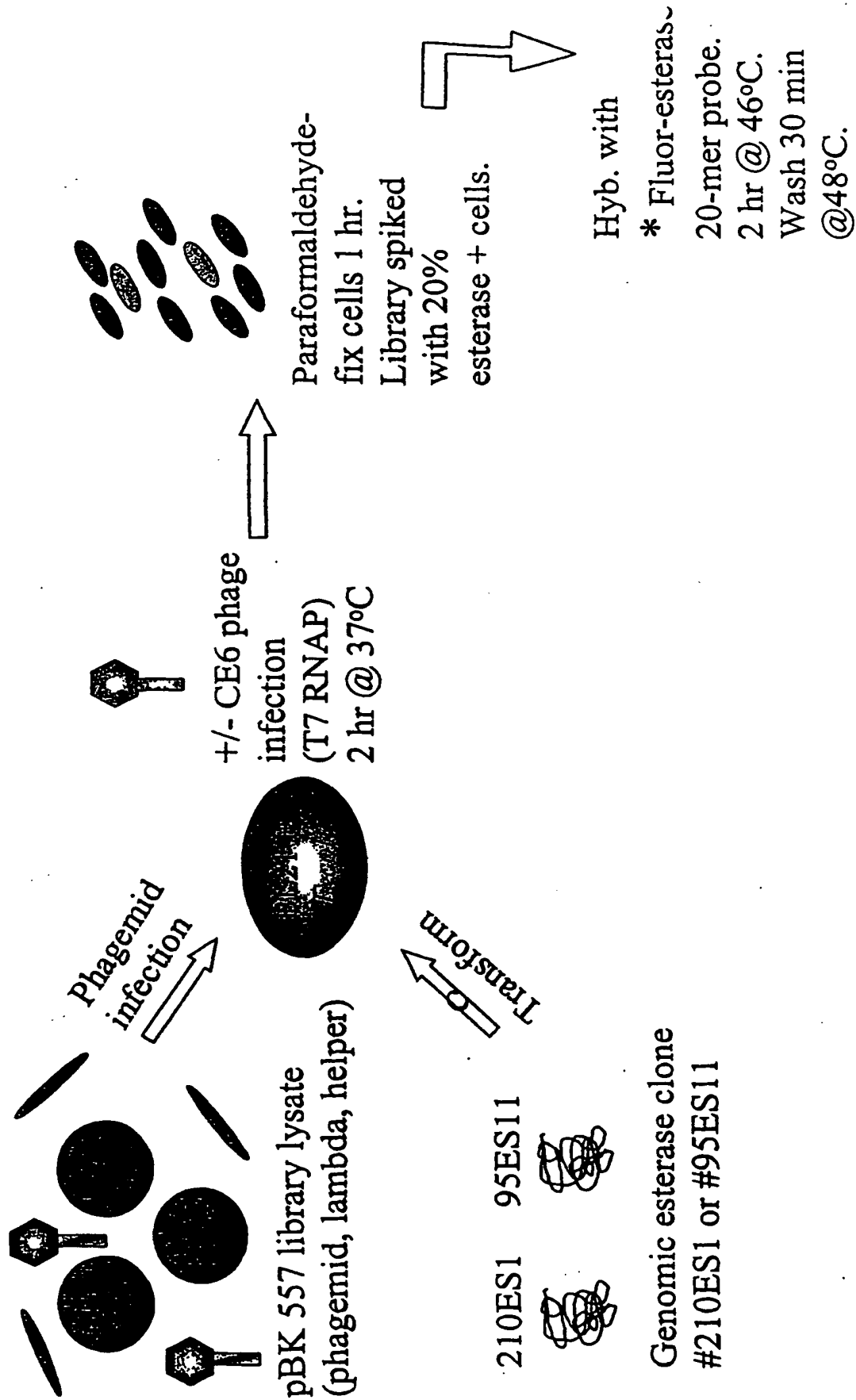


FIG. 22

T7 RNA Polymerase Expression System

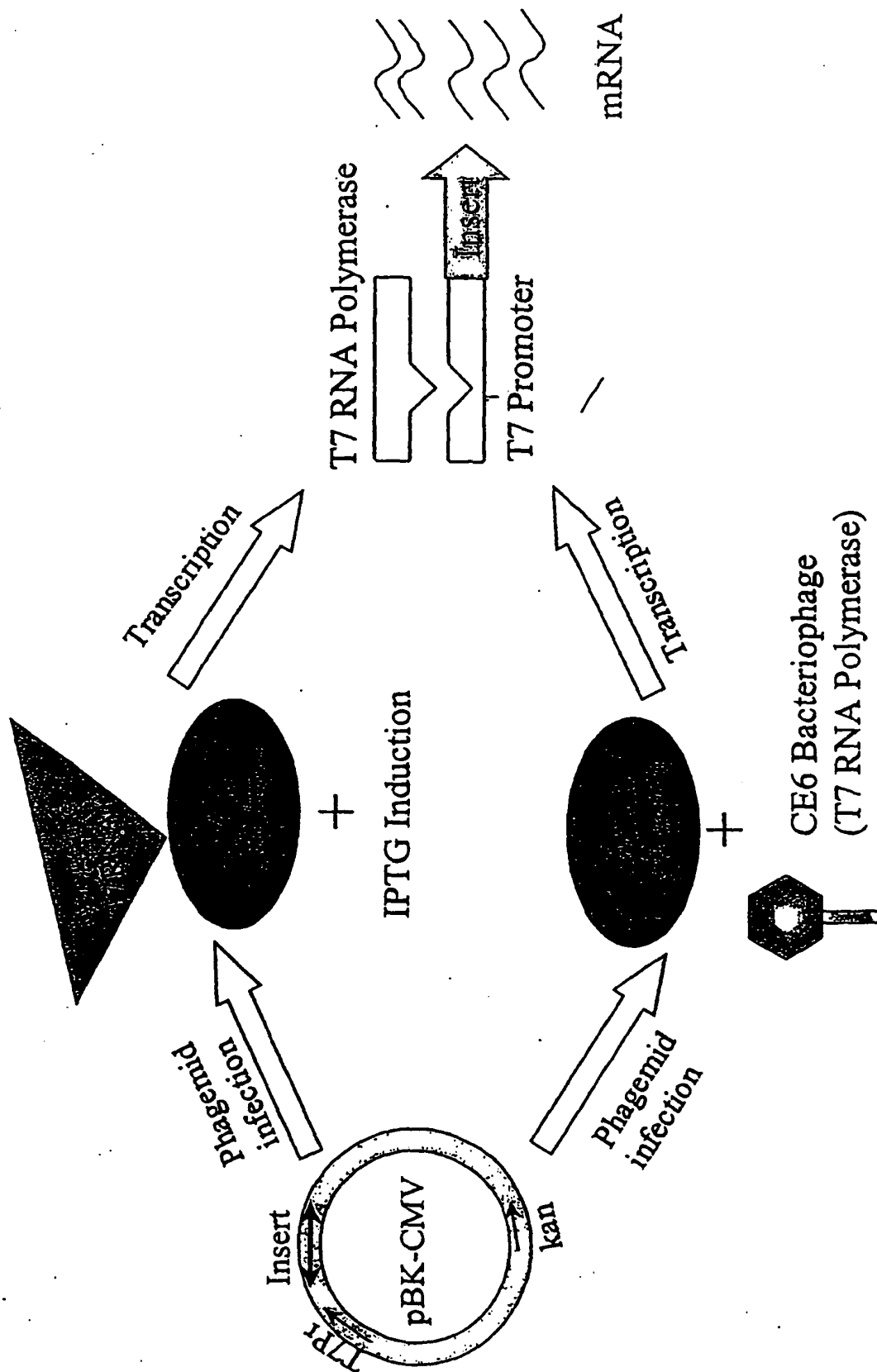


FIG. 23

Figure 24

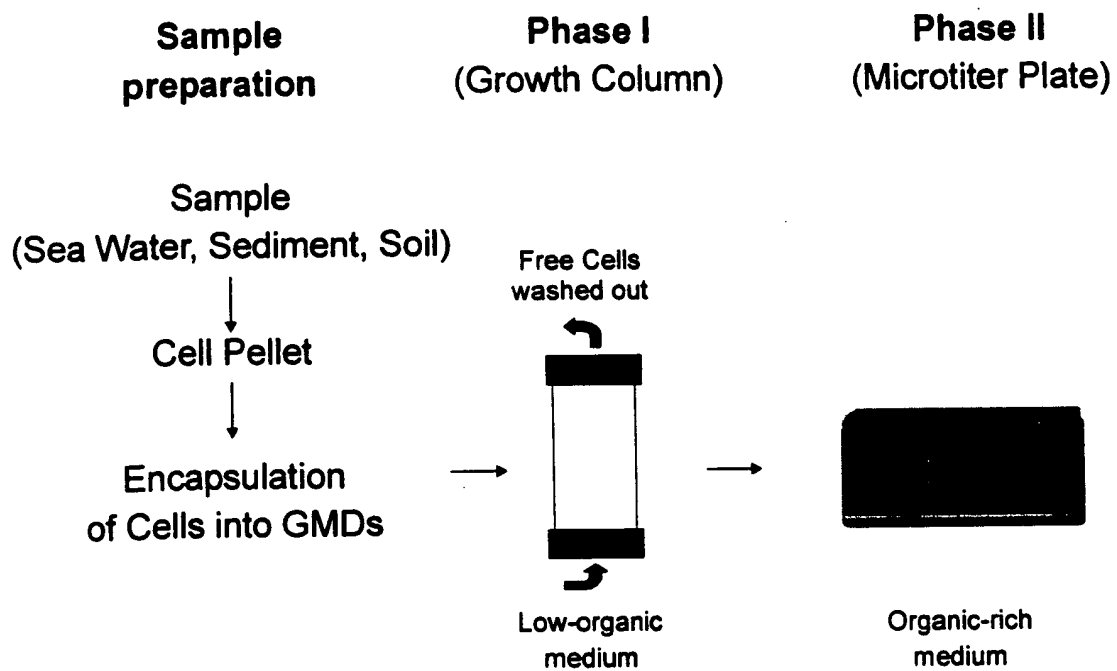


Fig. 24

Figure 25

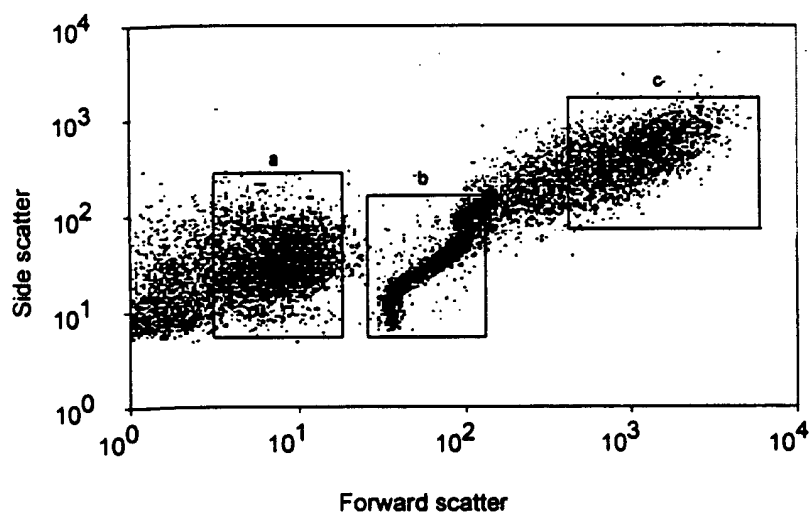


Fig. 25

Figure 26

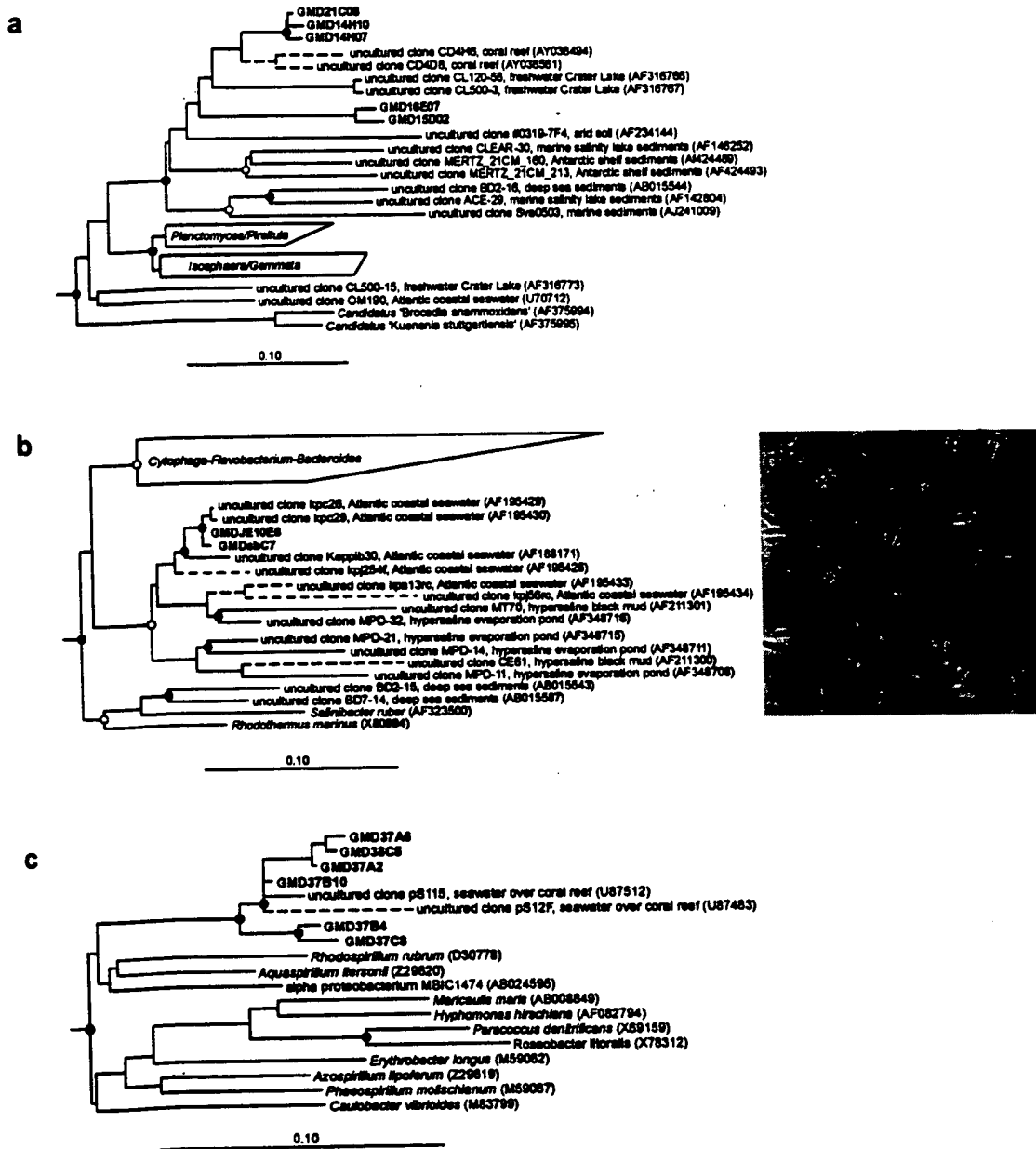


Fig. 26